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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: SPIRA=1A

In re Application of:

Micha SPIRA et al

Appln. No.: 10/560,315

Filing Date: June 10, 2004

For: ELECTRONIC DEVICE FOR COMMUNICATING WITH...

Atty. Docket: SPIRA=1A

Conf. No.: 4939

Art Unit: Not Yet Assigned

Washington, D.C.

September 28, 2006

COMMUNICATION TO CORRECT PTO/SB/08A (1449) FORM

Honorable Commissioner for Patents U.S. Patent and Trademark Office Randolph Building, Mail Stop Amendments 401 Dulany Street Alexandria, VA 22314

Sir:

The PTO/SB/08A (1449) Form previously submitted on September 12, 2006, contained a typographical error in the document number for references AA and AC. The previously submitted PTO/SB/08A (1449) Form incorrectly indicated the document number of reference AA as being EP 2000097899, instead of the correct document number <u>JP</u> 2000097899, and reference AC as being EP 2001156398, instead of the correct document number <u>JP</u> 2001156398. Attached hereto is a clean copy of the PTO/SB/08A (1449) Form previously submitted but reflecting the correction to references AA and AC.

It is respectfully requested that the attached clean copy of PTO/SB/08A (1449) Form replace the PTO/SB/08A (1449) Form originally submitted with the above-identified application on September 12, 2006, and be entered into the file to correct the record.

In re Appln. No. 10/560,315

Respectfully submitted,

BROWDY AND NEIMARK Attorneys for Applicant(s)

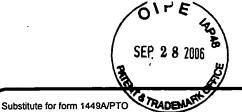
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INFORMATION	DISCLOSURE
STATEMENT B	Y APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete if Known				
Application Number	10/560,315			
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First Named Inventor	Micha SPIRA et al			
Group Art Unit Not Yet Assigned				
Confirmation No.	4939			
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	U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
Initials*	No.1	Number-Kind Code ^{2 (if known)}		<u> </u>	Figures Appear	
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		FOREIC	ON PATENT DO	CUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Number Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
	AA	JP 2000097899	04-07-2000	NTT Advanced Technology Corp.	Abstract	
	AB	WO 00/51191	08-31-2000	Yissum Research Development Company		
	AC	JP 2001156398	06-08-2001	Canon Inc.	Abstract	
	AD	WO 01/25769 A2	04-12-2001	Sophion Bioscience A/S		
	AE	WO 03/104789 A1	12-18-2003	Rutgers, the State University of New Jersey, University of Medicine & Dentistry of New Jersey		
	AF	WO 2004/044573 A1	05-27-2004	Yissum Research Develop.		

Examiner	Date	
Signature	Considered	

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Examiner Name 4939				
Attorney Docket Number	SPIRA=1A			

	NON PATENT LITERATURE DOCUMENTS / OTHER INFORMATION					
Examiner Initials*	Cite No.1					
	AG	Stett, A., Muller, B., Fromherz, P., "Two-way silicon- neuron interface by electrical induction", <i>Phys. Rev. B.</i> , 55: 1779-1781 (1997)				
	АН	Fromherz, P., "Electrical Interfacing of Nerve Cells and Semiconductor Chips", Chemphyschem. 3:276-84; 2002				
	AI	Weis R., and P. Fromherz. "Frequency dependent signal-transfer in neuron-transistors", Physical Review E. 55:877-889; January 1997				
	AJ	Weis R., B. Muller, and P. Fromherz, "Neuron Adhesion on a Silicon Chip Probed by an Array of Field-Effect Transistors", Physical Review Letters. 76:327-330; 8 January 1996				
	AK	Kandel, E.R. 2001, "The Molecular Biology of Memory Storage: A Dialog Between Genes and Synapses", Bioscience Report vol. 21, No. 5 pp. 565-611; October 2001				
	AL	Kandel, E.R. 2001, "The Molecular Biology of Memory Storage: A Dialogue Between Genes and Synapses", Science. 294:1030-8; 2 November 2001				
	AM	Zeck G., and P. Fromherz., "Noninvasive neuroelectronic interfacing with synaptically connected snail neurons immobilized on a semiconductor chip", Proc Natl Acad Sci U S A. 98:10457-62, August 28, 2001;				
	AN	Aderem, A., and D.M. Underhill. 1999, "Mechanisms of phagocytosis in macrophages", Annu Rev Immunol. 17:593-623				
	AO	May, R.C., and L.M. Machesky, 2001, "Phagocytosis and the actin cytoskeleton", J Cell Sci. 114:1061-77				
		Indik Z. et al., 1991, "Human Fc, RII, in the absence of other Fc, receptors, mediates a phagocytic signal", J Clin Invest. 88:1766-71				
		Blystone S.D. et al., November 1994, "Integrin alpha v beta 3 Differentially Regulates Adhesive and Phagocytic Functions of the Fibronectin Receptor alpha 5 beta 1", J Cell Biol. 127:1129-37				
	AR	Stahl P.D., and R.A. Ezekowitz, 1998, "The mannose receptor is a pattern recognition receptor involved in host defense", Current Opinion in Immunology 10:50-5				

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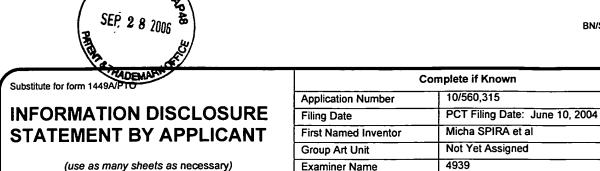
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Sheet	3	of	6	Attorney Docket Number	SPIRA=1A

	NON PATENT LITERATURE DOCUMENTS / OTHER INFORMATION					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²			
	AS	Dahlgren K et al., "Immobilization of Enzymes Based on Hydrophobic Interaction. I. Preparation and Properties of a ß-Amylase Adsorbate; Biotechnology and Bioengineering, Vol. XVIII, pp. 1573-1588 (1976)				
	AT	Critchley D.R., 2000, "Focal adhesions - the cytoskeletal connection", Current Opinion in Cell Biol. 12:133-9				
	AU	Heiple J.M. et al., 1990, "Macrophages Form Circular Zones of Very Close Apposition to IgG-Coated Surfaces", Cell Motility Cytoskeleton. 15:260-70				
	AV	Willner, I.; Katz, E. Angew. "Enzyme electrodes allow the production of more types of products" Chem., Int. Ed. 2000, 39, 1180-1218				
	AW	Yang, M. et al., Anal. "Acoustic Network Analysis as a Novel Technique for studying protein adsorption and Denaturation at Surfaces" Chem. 1993, 65, 3713-3716				
	AX	Caruso F. et al., J. "Characterization of Ferritin Adsorption onto Gold" Colloid Interface Science 1997, 186, 129-140				
		Razumas V., Arnebrant T., J. "Direct electrochemistry of microperoxide - 11 at gold electrodes modified by self-assembled monolayers of 4,4'-ditihiodipyridine and 1-octadecanethiol" Electroanalytical Chemistry. 1997, 427, 1-5				
		Moulin A. M. et al., " Measuring Surface-Iinduces Conformational Changes in Protein" Langmuir 1999, 15, 8776-8779				
		Armstrong F. A. et al., "Reaction of electron-transfer proteins at electrodes" Q. ReV. Biophys. 1986, 18, 261-322				
		Ulman A., "Formation and Structure of Self-Assembled Monolayers" Chem. Rev. 1996, 96, 1533-1554				
		Prime K. L., Whitesides G. M., J. Am. "Adsorption of Protein onto Surfaces Containing End-Attached Oligo (ethylene oxide): A Model System Using Self-Assembled Monolayers" Chem. Soc. 1993, 115, 10714-10721				
		Lahiri J. et al., "A Strategy for the Generation of Surfaces Presenting Lligands for Studies of Binding based on an Active Ester as a Common Reactive Intermediate: A Surface Plasmon Resonance Study" Anal. Chem. 1999, 71, 777-790				

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Sheet 4

of 6 **Examiner Name**

Attorney Docket Number

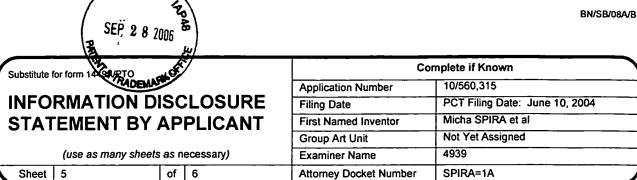
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	BE	Spinke J. et al., "Molecular Recognition at Self-Assembled Monolayers: Optimization of surface functionalization" J. Chem Phys. 1 November 1993, 99, 7012-7019					
	BF	Spinke J. et al., "Molecular Recognition at Self-Assembled Monolayers: The Construction of Multicomponent Multilayers" Langmuir 1993, 9, 1821-1825					
		Jain A., Huang S. G., Whitesides, "Lack of Effect of the Length of Oligoglycine and Oligo (ethylene glycol)-Drives para-Substituents on the Affinity of Benzenesulfonamides for Carbonic Anhydrase II in Solution" G. M. J. Am. Chem. Soc. 1994, 116, 5057-5062;					
	ВН	Mrksich M., Grunwell J. R., Whitesides "Biospecific Adsorption of carbonic Anhydrase to Self-Assembled Monolayers of Alkanethiolates That Present Benzenesulfonamide Group on Gold" G. M., J. Am. Chem. Soc. 1995, 117, 12009-12010					
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		Perez-Luna V. H. et al, "Molecular Recognition between Genetically Engineered Streptavidin and Surface-Bound Biotin" <i>J. Am. Chem. Soc.</i> 1999 , <i>121</i> , 6469-6478					
		Porath J. et al., "Metal Chelate affinity chromatography, a new approach to protein fractionation" <i>Nature</i> 1975 , <i>258</i> , 598-599					
	BN	Mosbach G. R. et al., "Protein of Cellulose-Bound Enzymes" Methods Enzymol. 1976 , 44, 53-65					
	ВО	Mattiasson B., "Affinity Immobilization" Methods Enzymol. 1988, 137, 647-656					
		Bastida A. et al, "A Single Step Purification, Immobilization, and Hyperactivation of Lipases via Interfacial Adsorption on Strongly Hydrophobic Support" <i>Biotechnol. Bioeng.</i> 1998, 58, 486-493					

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	BQ	Turkova J, "Oriented immobilization of biologically active protein as a tool for revealing protein interactions an function" J. Chromatogr., B 1999, 722, 11-31					
		Willner I. et al, "Electrical Wiring of Glucose Oxidase by Reconstitution of FAD-Modified Monolayers Assembled onto Au-Electrodes" J. Am. Chem. Soc. 1996, 118, 10321-10322					
	BS	Schmidt HL., Schuhmann W., "Reagentless oxidoreductase sensors" <i>Biosens</i> . <i>Bioelectron</i> . 1996 , <i>11</i> , 127-135					
	ВТ	Katz E. et al., "Reconstitution of the quinoprotein glucose dehydrogenase from its apoenzymeon a gold electrode surface modified with monolayer of pyrroloquinoline quinine" J. Electroanal. Chem. 1994, 368, 165-171					
	BU	Guo LH. et al, "Photo-active and electro-active protein films prepared by recostitution with metalloporphyrins self-assembled on gold" <i>J. Mater. Chem.</i> 1996 , 6, 369-374					
		Katz E. et al, "Electrical contact of redox enzymes with electrodes: novel approaches for amperometric biosensors" <i>Bioelectrochem. Bioenerg.</i> 1997 , <i>42</i> , 95-104					
		Willner I. et al, "Assembly of functionalized monolayers of redox protein on electrode surfaces: novel bioelectronic and optobioelectronic system" <i>Biosens</i> . Bioelectron. 1997, 12, 337-356					
		Gorton L. et al, "Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors" <i>Anal. Chim. Acta</i> 1999 , <i>400</i> , 91-108					
	BY	Hodneland, C. D.; Lee, YS.; Min, DH.; Mrksich, M. <i>Proc</i> . "Selective immobilization of protein to self-assembled monolayers presenting active sitedirected capture ligands" <i>Natl. Acad. Sci. U.S.A.</i> 2002, 99, 5048-5052					
		Gilardi, G.; Fantuzzi, A.; Sadeghi, S. J. "Engineering and design in bioelectrochemestry of metalloproteins" <i>Curr. Opin. Stuct. Biol.</i> 2001 , <i>11</i> , 491-499					
		Pierrat, O.; Lechat, N.; Bourdillon, C.; Laval, J. M. "Electrochemical and Surface Plasmon Resonance Characterization of the Step-by-Step Self-Assembly of a Biomimetric Structure onto an Electrode Surface" Langmuir 1997, 13, 4112-4118					
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uthor (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, sium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published . Hermann, A. G. M. Bulloch "Neurite Outgrowth, RGD-Dependent, dhesion of Identified Molluscan Motoneurons on Selected ol 35: 37-52, 1998 aniline Monolayer Self-Assembled on Hydroxyl-Terminated O1, 17(9), 2556-2559	T²
dhesion of Identified Molluscan Motoneurons on Selected ol 35: 37-52, 1998 aniline Monolayer Self-Assembled on Hydroxyl-Terminated	
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3	D., "Two-Dimensional Polyaniline Thin Film Electrodeposited on player" J. Am. Chem. Soc. 1998, 120, 10773-10742 Structural characterization of Si cones fabricated by Ar<+>- gets" Journal of crystal Growth, North Holland Publishing, 14, no. 4, February 2002, pages 654-659 Suctor chips with ion channels, nerve cells and brain", Physicals, Vol. 16 no. 1, January 2003, Pages 24-34

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